Mufasa Shake

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OBJECTIVE

Entry level engineering position related to *field of the job, which is different for each position*.

EDUCATION

B.S. Mechanical Engineering [*May 2013*]
Virginia Polytechnic Institute & State University (**Virginia Tech**), Blacksburg, VA

CERTIFICATION

Engineer-in-Training (EIT), Virginia [*May 2013*]

SKILLS

Professional: Collaboration, Problem Solving, Oral Communication, Technical Writing, Hands-On Manufacturing
CAD: Autodesk Inventor, Solid Works, Siemens NX, AutoCAD
Software: Microsoft Office Suite, MATLAB, CES EduPak, Quality Collaboration By Design (QCBD), Linux (Ubuntu) OS
Equipment: Digital Multimeter, Oscilloscope, Soldering Iron, Printed Circuit Board (PCB) Fixtures, DC Power Supply, Function Generator, Caliper, Power Drill & Rotary Tools

PROFESSIONAL EXPERIENCE

Engineering Intern [*Mar 2014 – Aug 2014*]
Medical Company, Inc**. -** Baltimore, MD

- Supported engineering projects for development, testing and troubleshooting of new and existing medical device products.
- Inspected, programmed, assembled, tested and serviced medical devices and components in a timely manner for delivery to customers and internal engineering team.
- Designed and fabricated fixtures to support manufacturing and testing of devices.
- Lead a process improvement project to meet compliance requirements and reduce auditing risk.
- Completed detailed investigations of non-conforming and rejected materials to determine root cause, rectify defects and prevent further re-occurrences.
- Produced and revised documentation including drawings, data sheets, tests, reports and procedures to keep document management system current and maintain compliance.
- Performed all functions by adhering to Good Manufacturing & Documentation Practices and Quality Policies.

ACADEMIC PROJECTS

Energy Management System Project [*Sept 2012 – May 2013*]

- Collaborated with a team of 9 members to research and design an energy system solution for a research building.
- Facilitated the design of a flywheel energy storage system as part of the system solution.
- Supported development of system's 12 kW power saving algorithm for energy cost savings.
- Assisted with programming of 7 year technical performance and financial simulation.
- Completed reports detailing project status and design process activities for quarterly reviews.
- Presented design achievements to review panels of industry and academic professionals.

BMX Bike Team Project [*Feb 2013 – May 2013*]

- Collaborated with a 6 member team on requirements, specifications, design and cost estimation.
- Created 3-D CAD models and engineering drawings of a multi-part subassembly.
- Documented design analysis, achieved milestones and recommendations in final report.

3D Map Team Project [*Sept 2012 – Dec 2012*]

- Researched and compared 4 available additive manufacturing technologies for fabrication.
- Proposed a design modification that resulted in a 15% material cost savings.
- Prepared technical design report and presented final fabricated 3D map design.

RELEVANT COURSES

Upper level technical elective 1
Upper level technical elective 2
Upper level technical elective 3
Upper level technical elective 4